

# Gentamicin and Tobramycin Dosing

Table 1: Dosing Weight

Is patient obese? If **NO**, dosing weight = total body weight. If **YES**, calculate dosing weight below:

Dosing weight calculation:

1. Calculate lean body weight (LBW):  
 $LBW = 2.3(\text{inches over 5 feet tall}) + [45 (\text{female}) \text{ or } 50 (\text{male})]$
2. If total body weight (TBW) is >40% above lean body weight (LBW),  
 $\text{dosing weight} = LBW + 0.4(\text{TBW} - LBW)$

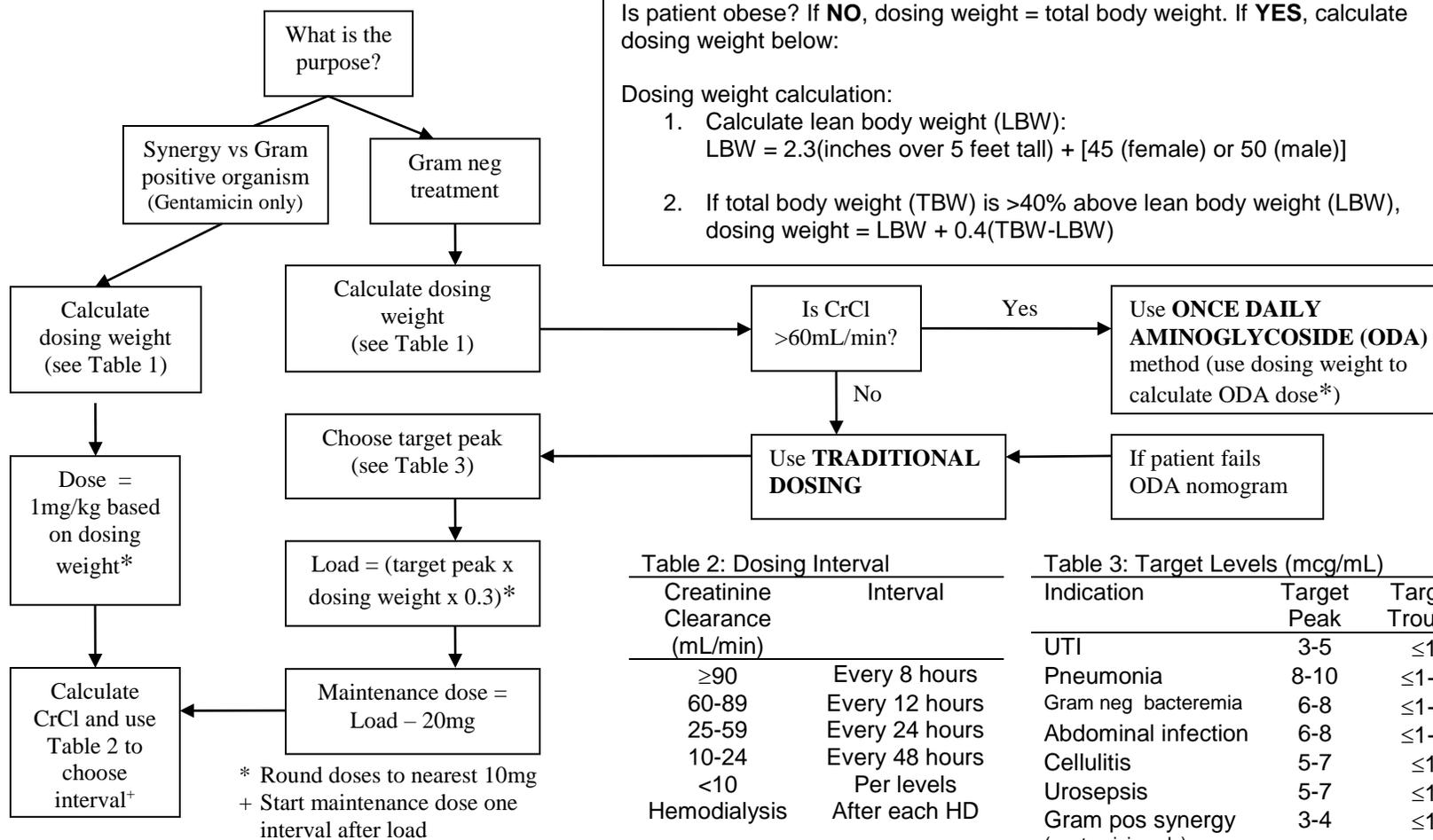


Table 2: Dosing Interval

Creatinine Clearance (mL/min)	Interval
≥90	Every 8 hours
60-89	Every 12 hours
25-59	Every 24 hours
10-24	Every 48 hours
<10	Per levels
Hemodialysis	After each HD

Table 3: Target Levels (mcg/mL)

Indication	Target Peak	Target Trough
UTI	3-5	≤1
Pneumonia	8-10	≤1-2
Gram neg bacteremia	6-8	≤1-2
Abdominal infection	6-8	≤1-2
Cellulitis	5-7	≤1
Urosepsis	5-7	≤1
Gram pos synergy (gentamicin only)	3-4	≤1

## Key Points About Concentration Monitoring

- If using **TRADITIONAL DOSING**, peak and trough concentrations should be obtained around the 4<sup>th</sup> dose (to ensure steady state).
  - ⇒ Peak concentrations should be obtained at least 30 minutes after a 1 hour infusion.
  - ⇒ Trough concentrations should be obtained just before the next scheduled dose.
- Peaks and troughs are not necessary if dosing by **ODA** method (use ODA nomogram)